

### ABSTRACT OF THE DISCLOSURE

A data communication method, a data transmitting apparatus, a data receiving apparatus, and a data transmission program are provided which do not cause the problem of jitter being generated by a combination of a 1-bit noise shaping A/D converter and 5 on-off keying using infrared rays. In a data transmitting apparatus, analog signals comprising voice or music or signals obtained by digitizing these are converted using a noise shaping method into non-return-to-zero digital signals formed by 1-bit data streams. For converted digital signals of "1", return-to-zero signals having a pulse width smaller than that of non-return-to-zero signals and that have been allocated a high level are 10 converted into radio signals and transmitted. For converted digital signals of "0", return-to-zero signals allocated a low level are converted into radio signals and transmitted. A data receiving apparatus receives these radio signals and drives a musical sound output section to output musical sound signals.